Pioneer

DVD Player

DV-220KV-K
DV-120K-K

DVD VIDEO

COMPACT disc DIGITAL VIDEO

COMPACT disc DIGITAL AUDIO

COMPACT disc SUPER VIDEO

VIDEO CD

HDMI

RW COMPATIBLE

Operating Instructions

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

IMPORTANT



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

D3-4-2-1-1_A1_En

CAUTION
This product is a class 1 laser product, but this product contains a laser diode higher than Class 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

CLASS 1
LASER PRODUCT

D3-4-2-1-8*_C_En

WARNING

This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filled with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture. D3-4-2-1-3_B_En

WARNING

Before plugging in for the first time, read the following section carefully.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., 230 V or 120 V) written on the rear panel. D3-4-2-1-4_A_En

WARNING

To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment. D3-4-2-1-7a_A_En

VENTILATION CAUTION

When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 10 cm at top, 10 cm at rear, and 10 cm at each side).

WARNING

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, table-cloths, curtains) or by operating the equipment on thick carpet or a bed. D3-4-2-1-7b_A_En

Operating Environment

Operating environment temperature and humidity:
+5 °C to +35 °C (+41 °F to +95 °F); less than 85 %RH (cooling vents not blocked)
Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light)

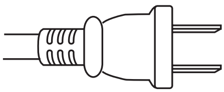
D3-4-2-1-7c*_A1_En

If the AC plug of this unit does not match the AC outlet you want to use, the plug must be removed and appropriate one fitted. Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel. If connected to an AC outlet, the cut-off plug can cause severe electrical shock. Make sure it is properly disposed of after removal.
The equipment should be disconnected by removing the mains plug from the wall socket when left unused for a long period of time (for example, when on vacation). D3-4-2-2-1a_A_En

CAUTION
The ⏻ STANDBY/ON switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from the AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation). D3-4-2-2-2a_A_En

For Taiwan exclusively

Taiwanese two pin flat-bladed plug



K056_En

This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period. K041_En

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement. S002*_En

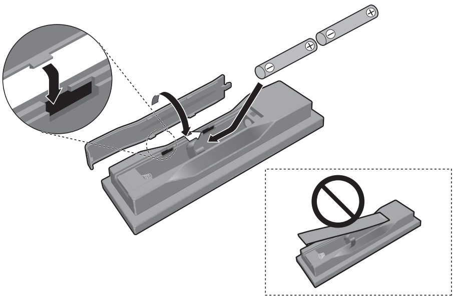
Before you start

What's in the box

- Remote Control
- Audio/video cable
- Power cable
- AA batteries (R6) x 2
- Operating instructions (this document)
- Front panel button names sticker (Taiwanese model only) – Chinese language button names for the front panel controls.
- Remote control overlay (Taiwanese model only) – Place the overlay on the remote control to be able to read the buttons in Chinese

Loading the batteries in the remote control

● Open the rear lid and insert the batteries as shown on the diagram below.



To close the rear lid, line up the catch with the groove and slide in the direction of the arrow (⇨).

Notes

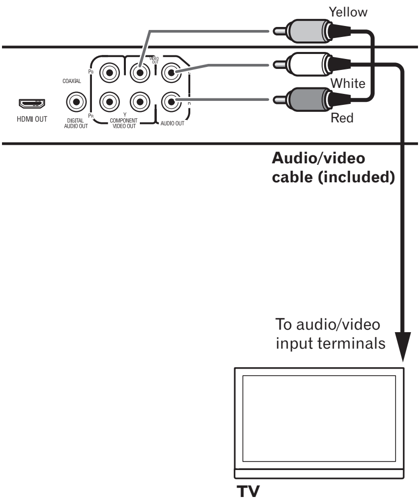
- Do not use any batteries other than the ones specified. Also, do not use a new battery together with an old one.
- When loading the batteries into the remote control, set them in the proper direction, as indicated by the polarity marks (⊕ and ⊖).
- Do not heat batteries, disassemble them, or throw them into flames or water.
- Batteries may have different voltages, even if they are the same size and shape. Do not use different types of batteries together.
- To prevent leakage of battery fluid, remove the batteries if you do not plan to use the remote control for a long period of time (1 month or more). If the fluid should leak, wipe it carefully off the inside of the case, then insert new batteries. If a battery should leak and the fluid should get on your skin, flush it off with large quantities of water.
- When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.
- **WARNING**
  Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

Connections

- Be sure to turn off the power and unplug the power cord from the power outlet whenever making or changing connections.
- Connect the power cord after all the connections between devices have been completed.

Connecting using an audio/ video cable

Player's rear panel (DV-220KV-K)



Connecting using an HDMI cable (DV-220KV-K only)

By using an HDMI cable, digital signals can be transferred to an HDMI-compatible TV on a single cable with no loss of picture or sound quality. After connecting, make the player's resolution and HDMI color settings according to the HDMI-compatible TV. Also refer to the HDMI-compatible TV's operating instructions.

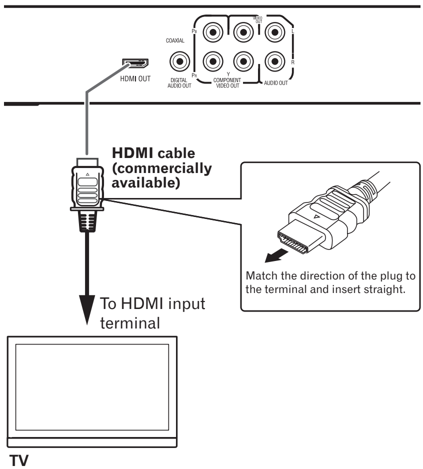
- HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

Notes

- This player's interface is designed based on the High-Definition Multimedia Interface specification.
- When an HDMI-compatible device is connected, the resolution is displayed on the front panel display.
- The resolution of the video signals output from the player's **HDMI OUT** terminal is changed manually. Change the **HDMI Resolution** setting (page 15). Settings for two units can be stored in the memory.
- This player is designed for connection to HDMI-compatible devices. It may not operate properly if connected to DVI devices.

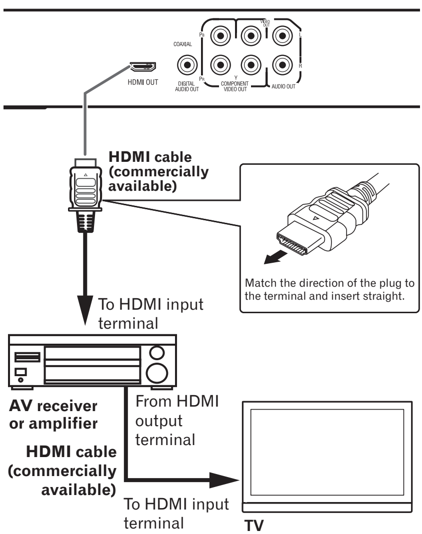
Connecting to a TV

Player's rear panel (DV-220KV-K)



Connecting to an AV receiver or amplifier

Player's rear panel (DV-220KV-K)



Audio signals that can be output from the player's HDMI OUT terminal

- 44.1 kHz to 96 kHz, 16-bit/20-bit/24-bit 2-channel linear PCM audio (including 2-channel downmixing)
- Dolby Digital 5.1-channel audio
- DTS 5.1-channel audio
- MPEG audio

- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

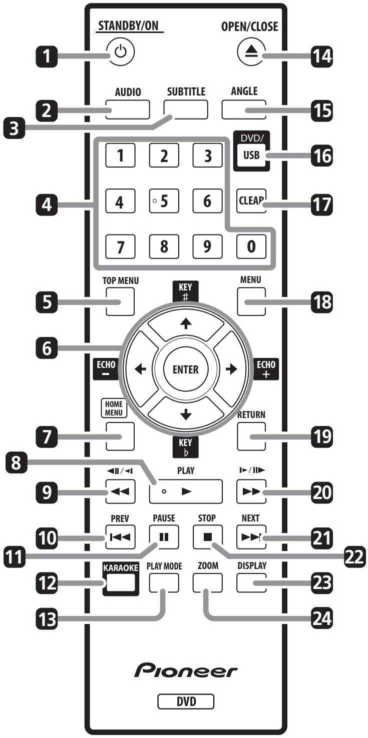
- Manufactured under license under U.S. Patent #: 5,451,942 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Out are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All Rights Reserved.

Connecting using commercially available cables

- The player can be connected to a TV, etc., using commercially available component video cables.
- The player can be connected to an AV amplifier, etc., using commercially available digital audio cables.

Part Names and Functions

Remote control



1 ⏻ **STANDBY/ON**

Press to turn the power on and off.

2 **AUDIO**

For discs or files including multiple audio streams/ channels, the audio stream/channel can be switched during playback.

3 **SUBTITLE**

On DVD-Video or DivX discs containing subtitles in multiple languages, the subtitle can be switched during playback.

4 **Number buttons (0 to 9)**

Use these to specify and play the title, chapter, track or file you want to view/listen to. Also use them to select items on menu screens, etc.

5 **TOP MENU**

Press to display the top menu of the DVD-Video.

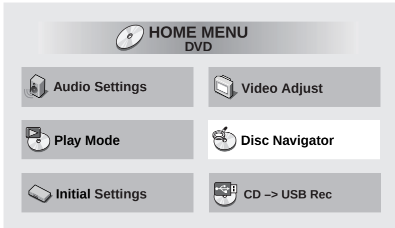
6 **↑/↓/←/→**

Use these to select items, change settings and move the cursor.

KEY ♯/KEY ♭ (page 13)
ECHO +/ECHO - (page 13)
ENTER
Use this to implement the selected item or enter a setting that you have changed.

7 **HOME MENU**

Press to display/hide the Home Menu.



- **Audio Settings** (page 14)
- **Video Adjust** (page 14)
- **Play Mode** (*PLAY MODE* on page 8)
- **Disc Navigator** (*MENU* on page 9)
- **Initial Settings** (page 14)
- **CD -> USB Rec** (page 12)

8 **► PLAY**

Press to start playback.

9 **◄◄/◄II/◄I**

- Press during playback to fast-reverse.
- Press in the pause mode to move backward frame-by-frame.
- Press and hold in while in the pause mode for slow play in the reverse direction.

10 **I◄◄ PREV**

Press to return to the beginning of the currently playing title, chapter, track or file. Press twice to move back to the beginning of the previous title, chapter, track or file.

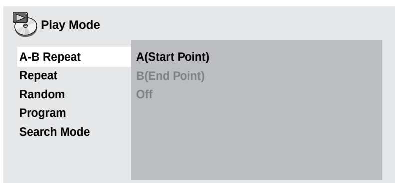
11 **II PAUSE**

Press to stop playback temporarily. Press again to resume.

12 **KARAOKE (page 13)**

13 **PLAY MODE**

Press to display/hide the Play Mode screen.



- **A-B Repeat**
  The specified section within a single title or track is played repeatedly.
- **Repeat**
  Plays titles, chapters, tracks or files repeatedly.
- **Random**
  Playes titles, chapters or tracks in random order.
- **Program** (page 13)
  Plays titles, chapters, tracks or files in the order in which you program them.
- **Search Mode**
  Plays the specified number or time within the title, chapter, track or file.

The Play Mode function may not work for some discs or files.

14 ⏏ OPEN/CLOSE

Open the disc tray and load the disc.

15 ANGLE

On DVD-Video discs containing multiple angles, the angle can be switched during playback.

16 DVD/USB (page 12)

Press to switch between the DVD and USB modes.

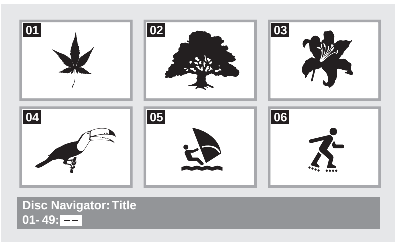
17 CLEAR

Press to clear the selected item. Use this for example if you input the wrong number.

18 MENU

- Press to display the menu screen or Disc Navigator.
- Select and play the title, chapter, track or file from the Disc Navigator.

Ex.: DVD video Disc Navigator



19 RETURN

Press to return to the previous screen.

20 ►►/I►/II►

- Press during playback to fast-forward.
- Press in the pause mode to move forward frame-by-frame.
- Press and hold in while in the pause mode for slow play in the forward direction.

21 ►►I NEXT

Press during playback to skips ahead to the beginning of the next title, chapter, track or file.

22 ■ STOP

When ■ **STOP** is pressed during playback, the point at which playback was stopped is stored in the memory. When ► **PLAY** is pressed, playback resumes from the point at which it was stopped.

23 DISPLAY

The elapsed time, amount remaining, etc., is displayed.

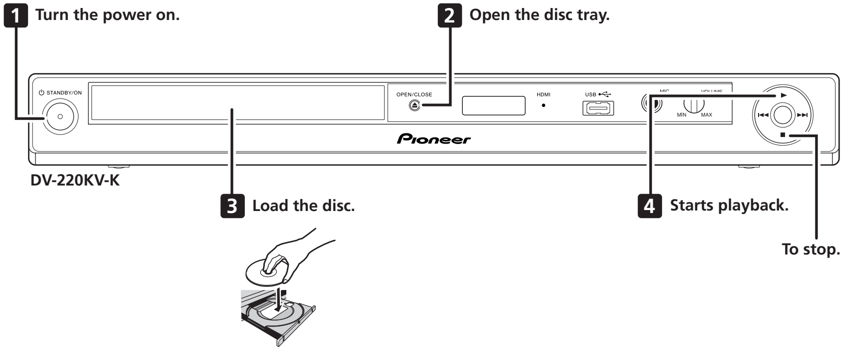
24 ZOOM

Zooming on the image

English

Playback

Playing discs or files



- Before starting, turn the TV's power on and switch the TV's input.
- The player's screen display language can be changed (*OSD Language* on page 15).

Example of display on main unit display window

When the power is turned on (ON)

ON

When the power is turned off (OFF)

OFF

When the disc tray is opened (OPEN)

OPEN

When the disc tray is closed (CLOSE)

CLOSE

When the disc is being loaded (LOAD)

LOAd

When the title menu or menu is displayed (TITLE)

tItLE

When the GUI is displayed or operated (GUI)

GUI

When in the USB mode (USB)

USb

When the disc is stopped (STOP)

StOP

When no disc is loaded

\- - - - -

Playing files stored on USB devices

- The player may not recognize the USB device, may not play files or may not supply power to the USB device. For details, see *When a USB device is connected* on page 19.
- Pioneer does not support that all files recorded on all USB devices will play or that power will be supplied to the USB device. Also note that Pioneer will accept no responsibility whatsoever for loss of files on USB devices caused by connection to this player.

1 Turn the power on.

Press ⏻ **STANDBY/ON**.

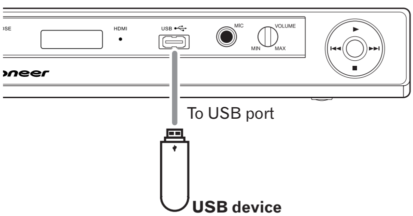
2 Switching the input to the USB mode.

Press **DVD/USB**.
USb is displayed on the front panel display.

3 Connecting USB devices.

The Disc Navigator appears automatically.

Player's front panel (DV-220KV-K)



4 Starts playback.

Use ↑/↓/←/→ to select the file, then press **ENTER**.

- Turn the power off before removing the USB device.
- The input will remain in the USB mode the next time the power is turned on. To return to the DVD mode, press **DVD/USB** (or press ⏏ **OPEN/CLOSE** to open the disc tray).

Recording audio CD tracks on USB devices

- The tracks of audio CDs loaded in the player can be recorded on a USB device connected to the USB port.
- It may not be possible to record tracks of audio CDs on a USB device. For details, see *When a USB device is connected* on page 19.

Selecting the track(s) to be recorded

1 Load the audio CD.

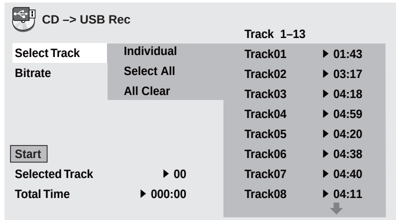
- If playback starts automatically, press ■ **STOP** to stop playback.

2 Display the Home Menu.

Press **HOME MENU**.

3 Select CD -> USB Rec.

Use ↑/↓/←/→ to select, then press **ENTER**.



4 Select Select Track → Individual → the track(s) you want to record.

Use ↑/↓/←/→ to select.

- **Individual**: Select 1 track at a time.
- **Select All**: Select all the tracks.
- **All Clear**: Deselect all the tracks.

5 Select Bitrate (transfer rate).

Use ↑/↓/←/→ to select, then press **ENTER**.

- Select **128kbps**, **192kbps** or **320kbps**.

6 Start recording.

Use ↑/↓/←/→ to select **Start**, then press **ENTER**.

Notes

- The audio signals are converted into MP3 format for output.
- **CD -> USB Rec** can only be selected when the audio CD is stopped.
- When recording is completed, a folder named “PIONEER” is automatically created on the USB device. The recorded tracks are stored in this folder.

Playing in the desired order (Programmed Play)

DVD-Video | Video CD | CD(R/RW) | DivX® | WMA | MP3

1 Display the Play Mode screen.

Press **PLAY MODE**.

2 Select Program.

Use ⬆/⬇ to select, then press **ENTER** or ➡.

3 Select Create/Edit.

Use ⬆/⬇ to select, then press **ENTER**.

- The Create/Edit screen differs according to the disc or file.

4 Select the title, chapter, track or file to be played.

Use ⬆/⬇/⬅/➡ to select, then press **ENTER**.

Program

Program Step	Title 1-01	Chapter 1-15
01.	Title 01	Chapter 001
02.		Chapter 002
03.		Chapter 003
04.		Chapter 004
05.		Chapter 005
06.		Chapter 006
07.		Chapter 007
08. ⬇		Chapter 008 ⬇

- To add to a program, first select the place in the program (the program step), next select the title, chapter or track, then press **ENTER** (files are added at the end of program).
- Press **RETURN** to return to the previous screen. If you return to the previous screen when inputting it, the settings you have programmed are cleared.
- To delete a step, highlight it and press **CLEAR**.

5 Starts playback.

Press ► **PLAY**.

- To play a program that has already been set, select **Playback Start** from the program screen, then press **ENTER**.
- To resume normal playback, select **Playback Stop** from the program screen, then press **ENTER**. The program remains in the memory.
- To cancel the entire program, select **Program Delete** from the program screen, then press **ENTER**.

Notes

- Programs can be played repeatedly. Select **Program Repeat** from **Repeat** on the play mode screen during programmed playback.
- Programs cannot be played in random order (random play is not possible during programmed play).

Karaoke

To use the karaoke function, connect the player and TV or AV amplifier, etc., using analog cables.
Be sure to adjust the volume and echo to the minimum before connecting the microphone. Failure to do so may result in damage to the speakers.

1 Adjusting the microphone volume to the minimum

Turn the **VOLUME** control on the player's front panel counterclockwise (to **MIN**).

2 Adjusting the echo to the minimum

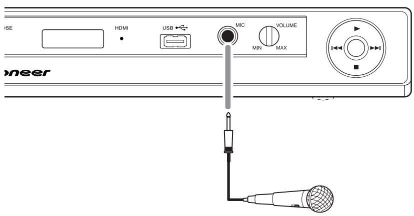
Press the **KARAOKE** button on the remote control, then within 5 seconds press ⬅ (**ECHO -**).

- The echo decreases each time this is pressed.

3 Connecting the microphone

Connect the microphone to the **MIC** terminal on the player's front panel.

Player's front panel (DV-220KV-K)



4 Loading and playing the disc

- Adjust the volume of the connected TV, etc. The **VOLUME** control on the player's front panel only adjusts the volume of the microphone.

5 Adjusting the microphone volume

Turn the **VOLUME** control on the player's front panel clockwise (towards **MAX**).

- To adjust the echo, press the **KARAOKE** button, then within 5 seconds press the ⬅ or ➡ (**ECHO -** or **ECHO +**) button.
- To adjust the key, press the **KARAOKE** button, then within 5 seconds press the ⬆ or ⬇ (**KEY ♯** (high)/ **KEY ♭** (low) button. The key can be adjusted up or down by five steps each.

Notes

- The sound may be distorted if the microphone's volume is too high. If so, lower the microphone's volume.
- If there is howling, move the microphone away from the speakers. Also try lowering the volume and echo.

Changing the settings

The factory default settings are indicated in ***italic***.

Audio Settings parameters

Parameters (settings)	
Sound Retriever (**High**/**Low**/***Off***)	• The sound of a WMA or MP3 file is played with high sound quality. This is only valid for files with the extension ".wma" or ".mp3". • The effect depends on the file. Try different settings, and choose the one providing the good effect.
Equalizer (***Off***/**Rock**/**Pop**/**Live**/**Dance**/**Techno**/**Classic**/**Soft**)	Select according to the genre of music to be listened to.
Virtual Surround (**On**/***Off***)	• A surround sound field with a sense of presence can be created with two speakers. • When set to **On**, linear PCM audio signals of 96 kHz or greater are converted to 48 kHz.
Audio DRC (**High**/**Medium**/**Low**/***Off***)	• This makes loud sounds weaker and weak sounds louder. Change the setting for example when watching movies late at night. • This setting only affects Dolby Digital sound. • The effect depends on the volume of the connected TV, AV receiver or amplifier, speakers, etc. Try different settings, and choose the one providing the strongest effect.
Dialog (**High**/**Medium**/**Low**/***Off***)	Change this setting if the sound of dialogs is low and the dialogs are hard to hear.

About Sound Retriever function

- When audio data is removed during the compression process, sound quality often degrades. The Sound Retriever function automatically enhances compressed audio and restores CD quality sound.

Video Adjust parameters

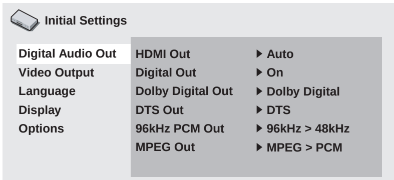
Parameters (settings)	
Sharpness (**Fine**/***Standard***/**Soft**)	Adjusts the picture's sharpness.
Brightness (**-20** to **+20**)	Adjusts the picture's brightness.
Contrast (**-16** to **+16**)	Adjusts the ratio of the brightness of the brightest and darkest portions of the picture.
Gamma (**-3** to **+3**)	Adjusts the look of the dark portions of the picture.
Hue (**green 9** to **red 9**)	Adjusts the balance between green and red.
Chroma Level (**-9** to **+9**)	Adjusts the density of the colors. This setting is effective for sources with many colors, such as cartoons.

Brightness, **Contrast**, **Gamma**, **Hue** and **Chroma Level** are set to ***0*** upon purchase.

Initial Settings parameters

- The player's detailed settings can be changed here.
- **Initial Settings** cannot be selected during playback. Stop the disc first.

DV-220KV-K



Digital Audio Out settings

Options settings	Settings
HDMI Out (DV-220KV-K only)	Select the audio signals to be output from the **HDMI OUT** terminal (**LPCM (2CH)**/***Auto***/**Off**) according to the connected HDMI-compatible device.
Digital Out	Select whether to output digital audio signals (***On***) from the **COAXIAL DIGITAL AUDIO OUT** terminals or not (**Off**).
Dolby Digital Out	Select whether to output Dolby Digital audio signals (***Dolby Digital***) or to convert Dolby Digital audio signals into linear PCM signals (**Dolby Digital > PCM**) for output, according to the connected AV amplifier, etc.
DTS Out	Select whether to output DTS audio signals (***DTS***) or not (**Off**), according to the connected AV amplifier, etc.
96 kHz PCM Out	Select whether to output 96 kHz audio signals (**96kHz**) or to convert 96 kHz audio signals into linear PCM signals (***96kHz > 48kHz***) for output, according to the connected AV amplifier, etc.
MPEG Out	Select whether to output MPEG audio signals (**MPEG**) or to convert MPEG audio signals into linear PCM signals (***MPEG > PCM***) for output, according to the connected AV amplifier, etc.

Video Output settings

Options settings	Settings
TV Screen	• Change the picture's display format (***4:3 (Letter Box)***/**4:3 (Pan & Scan)**/ **16:9 (Wide)**/**16:9 (Compressed)**), according to the connected TV. • **16:9 (Compressed)** can only be set on the DV-220KV-K.
Component Out	Change the output format of the video signals output from the **COMPONENT VIDEO OUT** terminals (**Progressive**/***Interlace***).
HDMI Resolution (DV-220KV-K only)	Change the resolution of the video signals output from the **HDMI OUT** terminals (**720x480i**/**720x576i**/***720x480p***/***720x576p***/ **1280x720p**/**1920x1080i**/**1920x1080p**).
HDMI Color (DV-220KV-K only)	Change the video signals output from the **HDMI OUT** terminal (**Full range RGB**/**RGB**/ ***Component***).

Language settings

Options settings	Settings
Audio Language	Change the language when listening to the sound of DVD-Video discs (***English***/ available languages/**Other Language**).
Subtitle Language	Change the language of the subtitles displayed for DVD-Video discs (***English***/ available languages/**Other Language**).
DVD Menu Lang.	Change the language used for the menu displays of DVD-Video discs (***w/Subtitle Lang.***/available languages/**Other Language**).
Subtitle Display	Select whether to display subtitles (***On***) or not (**Off**).

Display settings

Options settings	Settings
OSD Language	Change the language of the operation messages (**Play**, **Stop**, etc.) displayed on the TV screen (***English***/available languages).
Angle Indicator	Select whether to display the angle mark on the TV screen (***On***) or not (**Off**).
On Screen Display	Select whether to display operation messages (**Play**, **Stop**, etc.) on the TV screen (***On***) or not (**Off**).

Options settings

Options settings	Settings
KURO LINK (DV-220KV-K only)	Select whether to operate the player using the remote control of the AV component connected using an HDMI cable (***On***) or not (**Off**).
Parental Lock	Restrict DVD-Video viewing (**Password**/ **Level Change**/**Country Code**).
DivX VOD	Display the registration code required for playing DivX VOD files (**Activate**/ **Deactivate**).
Auto Power Off	Select whether to turn the power off automatically (***On***) or not (**Off**). When set to ***On***, the power automatically turns off if no operation is performed for 30 minutes or more while in the stop mode.

Setting the Component Out and HDMI Resolution settings back to their defaults

1 Turn the player's power off.

Press ⏻ **STANDBY/ON**.

2 Press ⏻ STANDBY/ON while pressing ⏮.

Use the buttons on the player's front panel. The power turns on.

Restoring all the settings to the defaults

1 Turn the player's power off.

Press ⏻ **STANDBY/ON**.

2 Press ⏻ STANDBY/ON while pressing ■.

Use the buttons on the player's front panel.

English

Playable discs and files

Playable discs

DVD-Video	• Commercially available DVD-Video discs • DVD-R/-RW/-R DL and DVD+R/+RW/+R DL discs recorded in the Video mode and finalized
DVD VR	DVD-R/-RW/-R DL discs recorded in the VR mode
Video CD	Video CDs (including Super VCDs)
CD(R/RW)	• Commercially available audio CDs • CD-R/-RW/-ROM discs containing music recorded in the CD-DA format
JPEG	JPEG files recorded on DVD-R/-RW/-R DL discs, CD-R/-RW/-ROM discs or USB devices
DivX®	DivX video files recorded on DVD-R/-RW/-R DL discs, CD-R/-RW/-ROM discs or USB devices
WMA	WMA files recorded on DVD-R/-RW/-R DL discs, CD-R/-RW/-ROM discs or USB devices
MP3	MP3 files recorded on DVD-R/-RW/-R DL discs, CD-R/-RW/-ROM discs or USB devices
Fujicolor CD	
KODAK Picture CD	

- DVD is a trademark of DVD Format/Logo Licensing Corporation.
- is a trademark of FUJIFILM Corporation.
- RW COMPATIBLE
  This label indicates playback compatibility with DVD-RW discs recorded in VR format (Video Recording format). However, for discs recorded with a record-only-once encrypted program, playback can only be achieved using a CPRM compatible device.

Notes

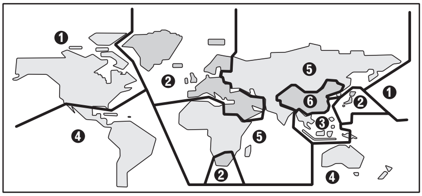
- This player does not support multisession discs or multiborder recording.
- Multisession/multiborder recording is a method in which data is recorded on a single disc in two or more sessions/borders. A "session" or "border" is one recording unit, consisting of a complete set of data from lead-in to lead-out.

Discs that cannot be played

- DVD-Audio discs
- DVD-RAM discs
- SACDs
- CD-G
- Blu-ray discs
- HD DVDs
- **Discs that have not been finalized**
- Discs recorded with packet writing

About region numbers

All DVD-Video discs carry a region mark on the case somewhere that indicates which region(s) of the world the disc is compatible with. Your DVD player also has a region mark, which you can find on the rear panel. Discs from incompatible regions will not play in this player. In this case the attention sentence **Incompatible disc region number Can't play disc** is displayed on screen. Discs marked **ALL** will play in any player. The diagram below shows the various DVD regions of the world.



Regarding copy protected CDs

This player is designed to conform to the specifications of the audio CD format. This player does not support the playback or function of discs that do not conform to these specifications.

About playing DualDiscs

- A DualDisc is a new two-sided disc, one side of which contains DVD content — video, audio, etc. — while the other side contains non-DVD content such as digital audio material.
- The DVD side of a DualDisc can be played on this player (excluding any DVD-Audio content).
- The non-DVD, audio side of the disc is not compatible with this player.
- It is possible that when loading or ejecting a DualDisc, the opposite side to that being played will be scratched. Scratched discs may not be playable.
- For more detailed information on the DualDisc specification, please refer to the disc manufacturer or disc retailer.

Playing discs created on computers or BD/DVD recorders

- It may not be possible to play discs recorded using a computer due to the application settings or computer's environment settings. Record discs in a format playable on this player. For details, contact the dealer.
- It may not be possible to play discs recorded using a computer or a BD/DVD recorder, if burn quality is not good due to characteristics of the disc, scratches, dirt on the disc, dirt on the recorder's lens, etc.

Playable files

- Only discs recorded in ISO9660 Level 1, Level 2 and Joliet can be played.
- Files protected by DRM (Digital Rights Management) cannot be played.
- Files other than the ones below (WMV, MPEG4-AAC, etc.) are not guaranteed to play.

Supported video file formats

DivX

- DivX is a media technology created by DivX, Inc. DivX media files contain image data.
- DivX files may also include such advanced playback functions as menu screens and selection of multiple subtitle languages/audio tracks.

- Plays DivX® video, including premium content
- DivX® is a registered trademark of DivX, Inc., and is used under license.

Displaying external subtitle files

- The font sets listed below are available for external subtitle files. You can see the proper font set on-screen by setting the *Subtitle Language* on page 15 to match the subtitle file.
- This player supports the following language groups:

Group 1	Afrikaans (af), Basque (eu), Catalan (ca), Danish (da), Dutch (nl), English (en), Faroese (fo), Finnish (fi), French (fr), German (de), Icelandic (is), Irish (ga), Italian (it), Norwegian (no), Portuguese (pt), Rhaeto-Romanic (rm), Scottish (gd), Spanish (es), Swedish (sv)
Group 2	Albanian (sq), Croatian (hr), Czech (cs), Hungarian (hu), Polish (pl), Romanian (ro), Slovak (sk), Slovenian (sl)
Group 3	Bulgarian (bg), Byelorussian (be), Macedonian (mk), Russian (ru), Serbian (sr), Ukrainian (uk)
Group 4	Hebrew (iw), Yiddish (ji)
Group 5	Turkish (tr)

- Some external subtitle files may be displayed incorrectly or not at all.
- For external subtitle files the following subtitle format filename extensions are supported (please note that these files are not shown within the disc navigation menu): .srt, .sub, .ssa, .smi
- The filename of the movie file has to be repeated at the beginning of the filename for the external subtitle file.
- The number of external subtitle files which can be switched for the same movie file is limited to a maximum of 10.

Supported image file formats

JPEG

- Resolution: Up to 3 072 x 2 048 pixels
- This player supports baseline JPEG.
- This player supports Exif Ver.2.2.
- This player does not support progressive JPEG.

Supported audio file formats

- This player does not support VBR (Variable Bit Rate).
- This player does not support lossless encoding.

Windows Media™ Audio (WMA)

- Sampling frequencies: 32 kHz, 44.1 kHz and 48 kHz
- Bit rate: Up to 192 kbps
- This player supports files encoded using Windows Media Player Ver. 7/7.1, Windows Media Player for Windows XP and Windows Media Player 9 Series.
- Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from Microsoft Licensing, Inc.

MPEG-1 Audio Layer 3 (MP3)

- Sampling frequencies: 32 kHz, 44.1 kHz and 48 kHz

Playable file extensions

Video files

.divx .avi

- Files not containing DivX video signals cannot be played, even if they have the extension ".avi".

Image files

.jpg .jpeg

Audio files

.wma .mp3

Additional information

Troubleshooting

- Incorrect operation is often mistaken for trouble or malfunction. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Inspect the other components and electrical appliances being used. If the trouble cannot be rectified after checking the items below, ask your nearest Pioneer authorized service center or your dealer to carry out repair work.
- The player may not operate properly due to static electricity or other external influences. In such cases, normal operation may be restored by unplugging the power cord then plugging it back in.

General problems

Problem	Check	Remedy
Settings you have made have been cleared.	Was the power cord unplugged forcibly while the player's power was on?	Be sure to press ⏻ **STANDBY/ON** on the player's front panel or press ⏻ **STANDBY/ON** on the remote control and wait for the **OFF** indicator on the front panel display to turn off before unplugging the power cord.
Difference in volume between DVDs and CDs.	This is not a problem with the player.	The volume may sound different due to differences in how the signals are recorded on the disc.
Player cannot be operated with the remote control.	Are you operating from far away?	Operate from within a distance of 7 meters from the remote control sensor.
	Is the remote control sensor exposed to direct sunlight or strong artificial light from a fluorescent bulb, etc.?	The remote control signals may not be received properly if the remote control sensor is exposed to direct sunlight or strong artificial light from a fluorescent bulb, etc.
	Are the batteries dead?	Replace the batteries (page 5).
Disc cannot be played or disc tray opens automatically.	Is the disc scratched?	Scratched discs may not play.
	Is the disc dirty?	Wipe the dirt off the disc (page 25).
	Is the disc properly set in the disc tray?	Set the disc with the printed side facing up.
		Set the disc within the groove in the disc tray.
	Does the disc have the right region number?	See *About region numbers* on page 16.
	Is the player placed in a humid location?	There could be condensation inside. Wait a while for the condensation to evaporate. Do not place the player near an air-conditioner, etc. (page 24).
The player's power turns off automatically.	Is **Auto Power Off** set to ***On***?	If **Auto Power Off** is set to ***On***, the player's power turns off automatically if no operation is performed for over 30 minutes (page 15).
Power turns on or off automatically.	Is **KURO LINK** set to ***On***?	The player's power may turn on together with the power of the TV connected to the **HDMI OUT** terminal. If you do not want the player's power to turn on when the TV's power is turned on, set **KURO LINK** to **Off** (page 15).
Input of connected TV and AV system switches automatically.	Is **KURO LINK** set to ***On***?	The input of the TV and AV system (AV receiver or amplifier, etc.) connected to the **HDMI OUT** terminal may automatically switch to the player when playback starts on the player or the menu screen (Home Menu, etc.) is displayed. If you do not want the inputs of the connected TV and AV system (AV receiver or amplifier, etc.) to switch automatically, set **KURO LINK** to **Off** (page 15).
Picture is stretched, or aspect ratio cannot be switched.	Is the aspect ratio properly set on the connected TV?	Refer to the TV's operating instructions and set the TV's aspect ratio properly.
	Is **TV Screen** properly set?	Set **TV Screen** properly (page 15).

Problem	Check	Remedy
During playback, picture is disturbed or dark.	This is not a problem with the player.	This player supports Macrovision copy protection. With some TVs, the picture may not display properly when playing discs including copy prevention signals. This is not a malfunction.
	Are the player and TV connected via a video deck?	When the player and TV are connected via a video deck, the player's analog copy protect function may cause the picture being played on the video deck not to display properly. Connect the player and TV directly.
	Is the TV system properly set?	The factory default setting is **AUTO**. If the picture is distorted, switch the TV system to the one used in your country or region (**NTSC** or **PAL**) (page 23).
Digital audio signals are not output from the **COAXIAL DIGITAL AUDIO OUT** terminals.	Is **Digital Out** set to ***On***?	When connected to the **COAXIAL DIGITAL AUDIO OUT** terminals, set **Digital Out** to ***On*** (page 14).
96 kHz/88.2 kHz digital audio signals are not output from the **COAXIAL DIGITAL AUDIO OUT** terminals.	Is **96 kHz PCM Out** set to **96kHz**?	Set **96 kHz PCM Out** to ***96kHz > 48kHz***.
	Are you playing a copyright-protected disc?	The 96 kHz/88.2 kHz digital audio signals of copyright-protected discs cannot be output.
Folder or file names are not recognized.	Have you exceeded the maximum number of folder or file names the player can recognize?	Up to 299 folders can be recognized on one disc. Up to 648 files can be recognized within one folder. Depending on the folder structure, however, the player may not be able to recognized certain folders or files.
Folder or file names are not displayed or are not properly displayed.	Do the folder or file names contain anything other than 1-byte alphanumeric characters?	Folder and file names can be displayed. Note, however, that only 1-byte alphanumeric characters can be displayed. Folder and file names including characters other than 1-byte alphanumeric characters may be displayed for example as **F_001** or **FL_001**, and the characters may be garbled.
Time is required to play JPEG files.	Are you playing large files?	Some time may be required to display large files.
Black bars are displayed when playing JPEG files.	Are you playing files with different aspect ratios?	Black bars may be displayed along the top and bottom or sides when JPEG files with different aspect ratios are played.

When a USB device is connected

Problem	Check	Remedy
USB device is not recognized.	Is the USB device properly connected?	Connect the device securely (all the way in).
	Is the USB device connected via a USB hub?	This player does not support USB hubs. Connect the USB device directly.
		This player only supports USB mass storage class devices.
		This player supports portable flash memory and digital audio playback devices.
		Only the FAT16 and FAT32 file systems are supported. Other file systems (exFAT, NTFS, etc.) are not supported.
	This is not a problem with the player.	Turn the power off then back on.
	This is not a problem with the player.	Some USB devices may not be recognized properly.
File cannot be played.	Is the file copyright-protected (by DRM)?	Copyright-protected files cannot be played.
	This is not a problem with the player.	Files stored on a computer cannot be played.
	This is not a problem with the player.	It may not be possible to play some files.
Folder or file names are not displayed or are not properly displayed.	Do the folder of file names contain more than 14 characters?	The maximum number of characters displayable for the folder and file names on the Disc Navigator is 14.

Problem	Check	Remedy
Folder or file names are not displayed in alphabetical order.	This is not a problem with the player.	The order of the folder and file names displayed on the Disc Navigator depends on the order in which the folders or files were recorded on the USB device.
Much time is required to recognized the USB device.	What is the USB device's capacity?	Some time may be required to load the data when large capacity USB devices are connected (this could take several minutes).
Power is not supplied to the USB device.	Is **Err** displayed on the front panel display? No power is supplied if the power consumption is too high.	Turn the power off then back on.
		Turn the power off, then disconnect and reconnect the USB device.
		Press **DVD/USB** to switch back to the DVD mode, then switch again to the USB mode. (When the input is switched back to the DVD mode, **LOAd** is displayed on the front panel display and the disc is recognized. When the input is switched back to USB, **USb** is displayed on the front panel display.)
		If the USB device is equipped with an AC adapter, use the USB device with the AC adapter connected.
Audio CD tracks cannot be recorded on a USB device.	Is there enough free space on the USB device?	Recording is not possible if there is not enough free space left on the USB device. In this case, **Available USB space is low** is displayed.
	Are there 300 or more folders on the USB device?	Recording is not possible if the USB device contains 300 or more folders.
	Are there already 99 PIONEER folders on the USB device?	Recording is not possible if there are already 99 PIONEER folders on the USB device.

When connected to an HDMI-compatible device (DV-220KV-K only)

Problem	Check	Remedy
Picture is not displayed.	Is the resolution properly set?	Set **HDMI Resolution** properly for the connected device (page 15).
		Restore **HDMI Resolution** to the default setting (***720x480p/720x576p***) (page 15).
	Is the HDMI cable properly connected?	Connect the cable securely (all the way in).
		With some cables, 1 080p video signals will not be output.
Sound is not produced or is distorted.	Is **HDMI Out** properly set?	Set **HDMI Out** to **LPCM (2CH)** or ***Auto*** (page 14).
Multichannel audio signals are not output.	Is **HDMI Out** properly set?	Set **HDMI Out** to ***Auto*** (page 14).
Colors are not properly displayed on TV screen.	Is **HDMI Color** properly set?	Change the **HDMI Color** setting (page 15).

Problem	Check	Remedy
KURO LINK function does not work.	Is the HDMI cable you are using a High Speed HDMI™ cable?	Use a High Speed HDMI™ cable.
	Is **KURO LINK** set to ***On*** on the player?	Set **KURO LINK** to ***On*** on the player (page 15).
	Does the connected device support the KURO LINK function?	The KURO LINK function does not work with devices of other brands, even if connected using an HDMI cable.
		The KURO LINK function will not work if devices that do not support the KURO LINK function or devices of other brands are connected between the KURO LINK-compatible device and the player.
		Even when connected to a Pioneer product compatible with the KURO LINK function, some of the functions may not work.
	Is **KURO LINK** set to ***On*** on the connected device?	Set “KURO LINK” on the connected component to “ON”. The KURO LINK function works when “KURO LINK” is set to “ON” for all the components connected to the **HDMI OUT** terminals.
	Are multiple players connected?	The KURO LINK function may not work if three or more players, including this player, are connected by HDMI cable.
The message **CEC200** appears.	Is the player’s power turned off?	When the Disc Navigator is selected using the Flat Screen TV’s remote controller, the message **CEC200** is displayed if the player’s power is turned off. This is not a malfunction. You may continue using the player and Flat Screen TV as such.

Language Code Table and Country/Area Code Table

Language Code Table

Language names (codes) and input codes

Japanese (ja), **1001**
English (en), **0514**
French (fr), **0618**
German (de), **0405**
Italian (it), **0920**
Spanish (es), **0519**
Chinese (zh), **2608**
Dutch (nl), **1412**
Portuguese (pt), **1620**
Swedish (sv), **1922**
Russian (ru), **1821**
Korean (ko), **1115**
Greek (el), **0512**
Afar (aa), **0101**
Abkhazian (ab), **0102**
Afrikaans (af), **0106**
Amharic (am), **0113**
Arabic (ar), **0118**
Assamese (as), **0119**
Aymara (ay), **0125**
Azerbaijani (az), **0126**
Bashkir (ba), **0201**
Byelorussian (be), **0205**
Bulgarian (bg), **0207**
Bihari (bh), **0208**
Bislama (bi), **0209**
Bengali (bn), **0214**
Tibetan (bo), **0215**
Breton (br), **0218**
Catalan (ca), **0301**
Corsican (co), **0315**
Czech (cs), **0319**
Welsh (cy), **0325**
Danish (da), **0401**
Bhutani (dz), **0426**
Esperanto (eo), **0515**
Estonian (et), **0520**
Basque (eu), **0521**
Persian (fa), **0601**
Finnish (fi), **0609**
Fiji (fj), **0610**
Faroese (fo), **0615**
Frisian (fy), **0625**
Irish (ga), **0701**
Scots-Gaelic (gd), **0704**
Galician (gl), **0712**
Guarani (gn), **0714**
Gujarati (gu), **0721**
Hausa (ha), **0801**
Hindi (hi), **0809**
Croatian (hr), **0818**
Hungarian (hu), **0821**
Armenian (hy), **0825**
Interlingua (ia), **0901**
Interlingue (ie), **0905**
Inupiak (ik), **0911**
Indonesian (in), **0914**
Icelandic (is), **0919**
Hebrew (iw), **0923**
Yiddish (ji), **1009**
Javanese (jw), **1023**
Georgian (ka), **1101**
Kazakh (kk), **1111**
Greenlandic (kl), **1112**
Cambodian (km), **1113**
Kannada (kn), **1114**
Kashmiri (ks), **1119**
Kurdish (ku), **1121**
Kirghiz (ky), **1125**
Latin (la), **1201**
Lingala (ln), **1214**
Laothian (lo), **1215**
Lithuanian (lt), **1220**
Latvian (lv), **1222**
Malagasy (mg), **1307**
Maori (mi), **1309**
Macedonian (mk), **1311**
Malayalam (ml), **1312**
Mongolian (mn), **1314**
Moldavian (mo), **1315**
Marathi (mr), **1318**
Malay (ms), **1319**
Maltese (mt), **1320**
Burmese (my), **1325**
Nauru (na), **1401**
Nepali (ne), **1405**
Norwegian (no), **1415**
Occitan (oc), **1503**
Oromo (om), **1513**
Oriya (or), **1518**
Panjabi (pa), **1601**
Polish (pl), **1612**
Pashto, Pushto (ps), **1619**
Quechua (qu), **1721**
Rhaeto-Romance (rm), **1813**
Kirundi (rn), **1814**
Romanian (ro), **1815**
Kinyarwanda (rw), **1823**
Sanskrit (sa), **1901**
Sindhi (sd), **1904**
Sangho (sg), **1907**
Serbo-Croatian (sh), **1908**
Sinhalese (si), **1909**
Slovak (sk), **1911**
Slovenian (sl), **1912**
Samoan (sm), **1913**
Shona (sn), **1914**
Somali (so), **1915**
Albanian (sq), **1917**
Serbian (sr), **1918**
Siswati (ss), **1919**
Sesotho (st), **1920**
Sundanese (su), **1921**
Swahili (sw), **1923**
Tamil (ta), **2001**
Telugu (te), **2005**
Tajik (tg), **2007**
Thai (th), **2008**
Tigrinya (ti), **2009**
Turkmen (tk), **2011**
Tagalog (tl), **2012**
Setswana (tn), **2014**
Tonga (to), **2015**
Turkish (tr), **2018**
Tsonga (ts), **2019**
Tatar (tt), **2020**
Twi (tw), **2023**
Ukrainian (uk), **2111**
Urdu (ur), **2118**
Uzbek (uz), **2126**
Vietnamese (vi), **2209**
Volapük (vo), **2215**
Wolof (wo), **2315**
Xhosa (xh), **2408**
Yoruba (yo), **2515**
Zulu (zu), **2621**

Country/Area Code Table

Country/Area name, Input codes and Country/Area code

United States, **2119**, us
Argentina, **0118**, ar
United Kingdom, **0702**, gb
Italy, **0920**, it
India, **0914**, in
Indonesia, **0904**, id
Australia, **0121**, au
Austria, **0120**, at
Netherlands, **1412**, nl
Canada, **0301**, ca
Korea, Republic of, **1118**, kr
Singapore, **1907**, sg
Switzerland, **0308**, ch
Sweden, **1905**, se
Spain, **0519**, es
Thailand, **2008**, th
Taiwan, **2023**, tw
China, **0314**, cn
Chile, **0312**, cl
Denmark, **0411**, dk
Germany, **0405**, de
Japan, **1016**, jp
New Zealand, **1426**, nz
Norway, **1415**, no
Pakistan, **1611**, pk
Philippines, **1608**, ph
Finland, **0609**, fi
Mexico, **1324**, mx
Russian Federation, **1821**, ru
Brazil, **0218**, br
France, **0618**, fr
Belgium, **0205**, be
Portugal, **1620**, pt
Hong Kong, **0811**, hk
Malaysia, **1325**, my

Setting the TV system

- If the picture of the disc being played is distorted, switch the TV system to the one used in your country or region.
- When the TV system is switched, the types of discs that can be played are limited.
- The factory default setting is **AUTO**.

1 Turn the player's power off.

Press ⏻ **STANDBY/ON**.

2 Press ⏻ STANDBY/ON while pressing ►►I.

Use the buttons on the player's front panel.
The power turns on and the TV system switches as shown below.

- AUTO→NTSC
- NTSC→PAL
- PAL→AUTO

Types of discs/files	Format	Player setting		
		NTSC	PAL	AUTO
DVD-Video, DVD VR, Video CD, DivX®	NTSC	NTSC	PAL	NTSC
	PAL	NTSC	PAL	PAL
CD(R/RW), WMA, MP3, JPEG, no disc	—	NTSC	PAL	NTSC or PAL

Cautions on use

When moving the player

When moving the player, check first that there is no disc loaded and that the disc tray is closed. Then press ⏻ **STANDBY/ON** on the player (or ⏻ **STANDBY/ON** on the remote control), wait for the **OFF** indicator on the front panel display to turn off, then unplug the power cord. Moving the player with a disc inside it could result in damage.

Place of installation

- Choose a stable place near the TV or stereo system being used with the player.
- Do not place the player on top of a TV or color monitor. Also install it away from cassette decks and other devices easily affected by magnetic forces.

Avoid the following types of places:

- Places exposed to direct sunlight
- Humid or poorly ventilated places
- Extremely hot places
- Places exposed to vibrations
- Places in which there is much dust or cigarette smoke
- Places exposed to soot, steam or heat (kitchens, etc.)

Do not place objects on the player.

Do not place any objects on top of the player.

Do not obstruct the ventilation holes.

Do not use the player on shaggy rugs, beds, sofas, etc., or wrapped in cloth, etc. Doing so will prevent the heat from dispersing, leading to damage.

Do not expose to heat.

Do not place the player on top of an amplifier or other component that generates heat. When placing it in a rack, to avoid the heat given off by the amplifier or other audio component, place it on a shelf below the amplifier.

Turn off the player's power when not using it.

Depending on signal conditions, striped patterns may appear on a TV screen and noise may enter the sound of radio broadcasts when the player's power is on. If this happens, turn the player's power off.

About condensation

If the player is moved suddenly from a cold place into a warm room (in winter, for example) or if the temperature in the room in which the player is installed rises suddenly due to a heater, etc., water droplets (condensation) may form inside (on operating parts and the lens). When condensation is present, the player will not operate properly and playback is not possible. Let the player stand at room temperature for 1 or 2 hours with the power turned on (the time depends on the extent of condensation). The water droplets will dissipate and playback will become possible. Condensation can also occur in the summer if the player is exposed to the direct wind from an air-conditioner. If this happens, move the player to a different place.

Cleaning the product

- Unplug the power cord from the power outlet when cleaning the player.
- Clean the player using a soft cloth. For tough dirt, apply some neutral detergent diluted in 5 to 6 parts water to a soft cloth, wring out thoroughly, wipe off the dirt, then wipe again with a soft, dry cloth.
- Alcohol, thinner, benzene, insecticides, etc., could cause the print or paint to peel off. Also, leaving rubber or vinyl products in contact with the player for long periods of time could mar the cabinet.
- When using chemical-impregnated wipes, etc., read the cautions included with the wipes carefully.

Caution for when the unit is installed in a rack with a glass door

Do not press ⏏ **OPEN/CLOSE** on the remote control to open the disc tray while the glass door is closed. The door will hamper the movement of the disc tray, and the unit could be damaged.

Cleaning the lens

The player's lens should not become dirty in normal use, but if for some reason it should malfunction due to dust or dirt, consult your nearest Pioneer authorized service center. Although lens cleaners for players are commercially available, we advise against using them since some may damage the lens.

About copyrights

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

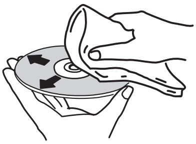
Handling discs

Storing

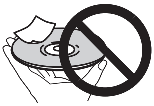
- Always place discs in their cases and store them vertically, avoiding hot, humid places, places exposed to direct sunlight and extremely cold places.
- Be sure to read the cautions included with the disc.

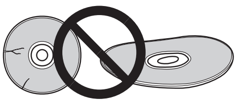
Cleaning discs

- Discs may not play if there are fingerprints or dust on them. In this case, use a cleaning cloth, etc., to gently wipe the disc from the inside towards the outside. Do not use dirty cleaning cloths.



- Do not use benzene, thinner or other volatile chemicals. Also do not use record spray or antistatic agents.
- For tough dirt, apply some water to a soft cloth, wring out thoroughly, wipe off the dirt, then wipe off the moisture with a dry cloth.
- Do not use damaged (cracked or warped) discs.
- Do not let the signal surface of discs get scratched or dirty.
- Do not place two discs in the disc tray, one on top of the other.
- Do not attach pieces of paper or stickers to discs. Doing so could warp discs, making it impossible to play them. Also note that rental discs often have labels attached to them, and the label's glue may have oozed out. Check that there is no glue around the edges of such labels before using rented discs.





About specially shaped discs

Specially shaped discs (heart-shaped, hexagonal, etc.) cannot be played on this player. Do not attempt to play such discs, as they could damage the player.



About condensation on discs

Water droplets (condensation) may form on the surface of discs if they are moved from a cold place (particularly in winter) into a warm room. Discs may not play normally if there is condensation on them. Carefully wipe the water droplets off the surface of the disc before loading it.

English

Specifications

Power requirements .... AC 110 V to 240 V, 50 Hz/60 Hz
Power consumption .... 11 W
Power consumption (standby)
DV-220KV-K .... 0.7 W
DV-120K-K... 0.6 W
Weight...1.3 kg
External dimensions
.... 360 mm (W) x 42 mm (H) x 208 mm (D)
Tolerable operating temperature............ +5 °C to +35 °C
Tolerable operating humidity.......................... 5 % to 85 %
(no condensation)

Video output

Output level .... 1 Vp-p (75 Ω)
Output terminal.. RCA terminal

Component video output (Y, CB/PB, CR/PR)

Y output level .... 1 Vp-p (75 Ω)
CB/PB, CR/PR output level .... 0.7 Vp-p (75 Ω)
Output terminal.. RCA terminal

HDMI output (DV-220KV-K only)

Output terminal...19-pin

Audio output (stereo L/R)

Audio output level................... 200 mVrms (1 kHz, -20 dB)
Output terminal.. RCA terminal
Frequency response .... 4 Hz to 44 kHz
S/N ratio...114 dB
Dynamic range...84 dB
Total harmonic distortion ....0.01 %

Digital audio output

Coaxial digital output .... RCA terminal

Additional information

USB port ....A type

Notes

- The specifications and design of this product are subject to change without notice.
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